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### ABSTRACT

A modified use of the Delphi technique to determine institutional goals for a community college learning resources center is described in this report. A committee of faculty and staff acted as "selected experts" in determining the initial goal statements. Processes and techniques for collapsing the large number of goal statements to a few detailed positive and negative goal statements are presented. The positive goal areas derived were: (1) small student discussion groups; (2) better learning environment; (3) better instruction; (4) individualized instruction; and (5) better organizational structure. Negative goal areas derived were: (1) faculty overload; (2) administrative misuse; (3) lack of small student discussion groups; and (4) dehumanization of students. These goals in their final statement forms were derived in view of the perceived purpose of the learning resources center as allowing the community college to respond to increasing student enrollments in the face of diminishing revenues without lowering the quality of education offered. The methodology used to bring about goal convergence is reported in a step-by-step manner so that interested researchers wishing to replicate the study at their institution may do so, and a brief literature review describes some possible applications of Delphi in other areas of education. (AL)



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### LOS ANGELES CITY COLLEGE

AN EX POST FACTO NEEDS ASSESSMENT USING A MODIFIED DELPHI TECHNIQUE TO DETERMINE THE GOALS OF A COMMUNITY COLLEGE LEARNING RESOURCES CENTER

Research Study #72-6

Albert J. Landini Ben K. Gold Office of Research May, 1972 UNIVERSITY OF CALIF.
LOS ANGELES

MAY 15 1972

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### PREFACE

Mr. Albert Landini is currently working part-time in the Los Angeles City College Research Office while pursuing a doctorate in conjunction with the Center for the Study of Evaluation at U.C.L.A. His background includes both an M. A. and an M.P.A., employment as City Planner for the City of Los Angeles, and part-time teaching at West Los Angeles College and Santa Monica City College.

We are pleased to be able to have his talents available to us, and especially pleased to have them utilized in carrying the major responsibility for the project described herein.

B. K. Gold Director of Research Los Angeles City College



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### AN EX POST FACTO NEEDS ASSESSMENT USING A MODIFIED DELPHI TECHNIQUE TO DETERMINE THE GOALS OF A COMMUNITY COLLEGE LEARNING RESOURCES CENTER

### I. INTRODUCTION

Los Angeles City College (LACC) is an inner-city school and, like most educational institutions in similar situations in present day metropolitan America, it is faced with escalating educational costs and static or even decreasing revenues. To meet this challenge successfully requires the maintenance of existing high quality educational programs in the face of imposed budget limitations. Earlier pilot projects involving autotutorial (A-T) devices at the College's Learning Resources Center (LRC) indicated that contemporary educational technology could play a significant role in alleviating the problem. Hence, plans were laid and implemented to construct a modern, large scale LRC on the LACC campus.

The problem. As construction of the new facility progressed, discussions between the Research Office and a number of campus people revealed that there was a good deal of apprehension about what the effects of the new LRC would be on the instructional program, faculty-student ratio, student contact hours, and other factors. When presented with this information the Dean of Instruction and Dean of College Development agreed that it was worthwhile to crystalize these apprehensions and make them known to all involved. At the same time it was deemed beneficial to prepare specific documentation attempting to state precisely what the LRC should be expected to accomplish in terms other than cost-savings or campus prestige.



Statement of purpose. Thus, it was decided to verbalize the thinking of campus people with regard to the LRC through the medium of this report. To do this, it was necessary to collectivize many different "feelings" and "attitudes" people held about the LRC into a series of statements having meaning for all parties. The so-called Delphi method for achieving consensus of opinions was selected as the best technique for achieving this desired end.

In the initial "brainstorming" session preceding the beginning of the actual project it was thought that the project's basic effort could best be directed toward trying to obtain consensus as to what desirable goals should be stated for the LRC. These stated goals could then, perhaps at a later date, serve as a basis for producing some kinds of measures for determining how well these goals were being attained.

A second benefit foreseen as resulting from the project was the assistance that would be provided to both faculty and administration if some of the concerns and apprehensions that everyone felt, could be pinned down so that all involved could be made aware of them.

### II. REVIEW OF THE LITERATURE

Numerous technical documents have been produced to aid the interested researcher in thoroughly understanding the mathematical assumptions and mechanics that lay behind the Delphi technique. It seems inappropriate to review that literature in this paper; however appropriate technical references are cited in the Bibliography for use by those inclined to read them. What has been done in this portion of the paper is to present sufficient material to familiarize the generalist with the technique used and demonstrate some other uses of Delphi technique in an educational setting.



Page 3.

The Delphi technique. Dr. Norman C. Dalkey of RAND Corporation in Santa Monica, California has been the primary advocate and developer of the Delphi method. In one of his earlier works, The Delphi Method:

An Experimental Study of Group Opinion, he neatly reviews the methodology.

In that review Dalkey informs us that:

"The Delphi technique is a method of eliciting and refining group judgments. The rationale for the procedure is primarily the age-old adage 'two heads are better than one, ' when the issue is one where exact knowledge is not available. The procedure has three features: (1) Anonymous response opinions of members of the group are obtained by formal questionnaire, (2) Iteration and controlled feedback - interaction is effected by a systematic exercise conducted in several iterations with carefully controlled feedback between rounds, (3) Statistical group response - the group opinion is defined as an appropriate aggregate of individual opinions on the final round. These features are designed to minimize the biasing effects of dominant individuals, of irrelevant communications, and of group pressure toward conformity."

Research was conducted using the Delphi technique to explore the nature of information processes. In these efforts the goal was to explore the differences in (1) a comparison of face-to-face discussion with the controlled - feedback interaction, and (2) a thorough evaluation of controlled feedback as a technique of improving group estimates. This work substantiated the validity of the Delphi technique as a means of providing "better" answers of partial information. More importantly it was found that Delphi procedures resulted in a quantitatively definable process.

<u>Some educational applications</u>. The use of Delphi technique has been extended beyond the forming of a group consensus as to the number of occurrences projected for a particular phenomenon to being used as an aid to getting a group's central opinion about organizational goals and priorities. In both of these situations, educational researchers can use Delphi technique to their advantage.



Specific applications for the technique can be easily found in the areas of curricula planning and goal determination for the college at large as well as for organizational sub-units such as divisions or departments. Unfortunately examples of such uses of Delphi technique in these areas are lacking and the fledgling researcher must feel his way along when using Delphi technique in such an educational setting.

### III. METHODOLOGY

The problem defined. After commitment to the task at hand, the Research Office staff attempted to state specifically the problem as it was perceived by them. In final form the project's objectives were stated thusly:

- (1) Construct a list of possible negative aspects and positive goals thought to be associated with the new LRC at IACC.
- (2) Rate these negative aspects and positive goals as to their relative importance.

Selection of experts. In determining the goals for any organization or organizational effort it is desirable to initially reduce the population associated with the effort to some reasonable sample representative of the total group. With the LRC, the concerned population was composed of students, faculty, staff, and outside community members. However, time constraints on the project prevented the selection of a panel of experts representative of this total group to serve as a goals committee.

There was, at the time this project was undertaken, a Media-Oriented Systems Technology (MOST) Task Force already convened. It was composed of twenty-eight (28) faculty and staff members and had as its declared



purpose, the development and implementation of media to be utilized in instruction is selected courses at IACC. This group was chosen as the goals committee,

It should be noted that this group of "selected experts" suffered as a whole in that membership reflected systematic bias in its original selection, and the Task Force lacked student members and community representatives. On the other hand the high interest level of the MOST Task Force members assured good cooperation with the project and, as was later borne out, their viewpoints were sufficiently divergent so as to represent a variety of concepts regarding the LRC.

First iteration (Phase I). The project actually got underway with an introduction of the Research Office staff to the MOST Task Force, and an explanation of the project by the research staff. This was followed up by a letter sent to the MOST group on February 16, 1972 (see appendices) initiating Phase I of the project.

It was the purpose of that communique to briefly restate the project's purpose to our MOST group and solicit from them some statements as to what they believed would be both positive goals and negative aspects associated with the IRC. They were asked to make their statements sufficiently broad so as to not be limited to any specific course, but rather reflect some overall effect on students, faculty, and administrators.

Fifteen MOST Task Force members responded to the original instrument. Negative and positive responses from the participants were compiled and a list made of them. On that list duplicate statements were eliminated, and some editing was performed to put all of the statements into a similar language style format.



Second iteration (Phase II). In Phase II the list of positive and negative statements gathered and compiled in Phase I were returned to all members of the MOST group that was acting as the goals committee in this project. This list of statements was transmitted by letter to the MOST program members on February 28, 1972 (see appendices), in which they were asked to read both the positive and negative statements and assign them values ranging from zero to one hundred. Higher numbers indicated those statements thought of as having the most potential impact on the LRC, low scores indicated those having the least impact.

Fourteen MOST Task Force members responded to the Phase II instrument. With the return of these statement lists with value scores assigned them, the research staff set about determining the median value for each of the statements. After the median value was determined for each of them, a second list was prepared.

The second list was a shortened one. Statements having a median value less than 50 were subjectively judged by the research staff as being of relatively little importance to the MOST program members. In addition to being shorter, the second list was different because it showed the median score determined for each statement as well as having those statements listed in rank order of those median scores.

Third iteration (Phase III). In this last Phase the list of rankordered statements with median values prepared in Phase II was sent to the
MOST Task Force on March 24, 1972 (see appendices). The Task Force members were informed that this was the last section of the project requiring
their active participation.



The instructions accompanying the instrument in the third iteration asked the participants to again read the statements, but this time to take note of the median value assigned to them. With this information it was thought, by the research staff, that individual raters would have some idea of how other MOST program members felt about what was important or not important in terms of positive and negative aspects associated with the IRC.

Sixteen rating sheets were returned this time to the Research Office. These sheets with the new values were then reviewed and new median scores determined for each of the statements. This marked the close of Phase III and the Research Office staff set about inspecting the data they had collected.

### IV. DATA ANALYSIS

After the Phase III list of statements sent to the MOST Task Force were returned, the values assigned to those statements were compiled and the median value for each statement was determined. Thus, the median was used again with the data collected in the third iteration to indicate central tendency on the part of the respondents for each positive and negative statement.

Use of the median. The logic in using the median as the statistical representative of the group answer lay primarily in wanting to minimize the effect of extreme scores assigned to the various statements. Dalkey explains his use of the median as being that, "If the range of group answers includes the true answer, then, in general, the median is closer to the true answer than more than half of the group."



Goal convergence. The purpose of resubmitting the list of positive and negative statements to the goals committee was to try and narrow down their ideas and opinions regarding the LRC. Once the median values had been determined for statements ranked in Phase III, a worksheet formatted as shown below was constructed:

## FIGURE 1 - :

1st rank 2nd rank Statement 1st median 2nd median

When completed this worksheet gave the research staff a means of

comparing (1) the relative importance of each positive and negative statewhen ment/compared to all other positive and negative statements respectively, and (2) the change in importance of each statement from the second to the third iteration.

After reviewing the worksheet the research staff concluded that those statements not having a median value of 75 on the third iteration were of insufficient value to all parties to be considered further. Other means of reaching this decision could have included the use of only those statements in the upper quartile of those outside plus one standard deviation. However, neither of these would have been superior to the methodology used.

Collapse of goals. A final worksheet was prepared showing positive and negative statements in rank order whose third iteration median scores were 75 or greater. The format was similar to that used in the initial data analysis worksheet described in Figure 1.



FIGURE 2
POSITIVE STATEMENTS

Page 9.

No.	1 st Rank	2 nd Rank		1 st	2 nd
1	2	Rank 1		Median	Mediar
2	2	1	Establishment of small discussion groups	90	90
	4.	2.	Make education more interesting and		
3	5	1	stimulating	90	90
3	,	7	Provide increased aid to hardworking,		
4	7	1	slow learning students	85	90
-	,	T	Repeated access to a particular course		
5	1	5	portion	80	90
_	-	,	More instructor and small student group		
6	7	5	interaction at no additional expense	93	88
7	4	7	Students advance at individual pace	80	88
•		,	Give student instant feedback as to		
8	7	7	learning success	88	85
U	,	,	Students absorb lecture material at their		
9	15	9	own speed	80	85
10	6	10	Improved learning situations	<b>7</b> 5	80
10	U	10	Increase in individualized, professional		
11	7	10	and humanized instruction	83	80
T.T.	,	10	Provide opportunity for new teaching tech		
12	7	10	niques	03	80
13	7 7	10	More student and instructor interaction	80	80
1.7	,	10	Improved course content and subject matte		
14	7	10	review by instructors	80	80
1-7	,	10	Updating instructors approach to		
15	17	10	teaching	80	80
		20	Increased contribution to student		
16	23	10	learning	<b>7</b> 0	80
17	29	17	Improvement of instruction	63	80
18	15	18	Better organized classes	60	79
	13	TÔ	Improved instructor creativity in com-		
19	28	18	municating material	75	<b>75</b>
	20	40	Increased student gain	62	75
			NEGATIVE STATEMENTS		
1	1	1	Instructor fear that project purpose is		
		-	to decreas their number while in-		
			creasing student load	85	92
2	1	2	Lowered faculty morale	85	90
3	4	2	Regard A-T as panacea for cost cutting	80	90
4	4	2	Air of distrust between faculty and	00	20
			administration regarding the project	80	90
5	4	5	Excessive instructor production workload	80	85
6	13	6	Administrative misuse	68	82
7	1	7	Inadequate funds allocated for program	00	O.A.
			maintenance	85	80



NEA
NEGATIVE STATEMENTS (continued)

8	7	7	Increase student alienation through loss		
_	_		of identity in large lecture classes	<b>7</b> 8	80
9	7	7	Improbable that small discussion groups will		
			be formed	78	80
10	10	7	Loss of human inter-relationships	70	80
11	14	7	Dehumanization of student life	65	80
12	9	13	Increased impersonalization of learning	0.7	80
			process	72	75
_	The	e works	sheet shown in Figure 2 gave the research staff	a means	of

quickly noting the effect the third iteration had upon the goals committee participants in bringing about a convergence of their opinions. It was now necessary to collapse this large number of important positive and negative statements into a final set of goal statements.

Collapse of goals. Individual statements from the final goals work sheet were typed onto cards. These in turn were submitted to a small panel of non-partisan reviewers who were familiar with the problem. That group's purpose was to collapse the list of statements into major subject areas, and to identify the areas in global terms. The areas identified and labeled are shown in Figure 3.

# FIGURE 3 GLOBAL GOAL AREAS Positive Statements

- \* Small student discussion groups
- \* Better learning environment
- \* Better instruction
- \* Individualized instruction (mechinery)
- \* Individualized instruction (instructor)
- \* Better organizational structure

### Negative Statements

- \* Faculty overload
- Administrative misuse
- \* No small student discussion groups
- Dehumanizing of students



When this stage was completed the research staff had the final important statements grouped by major global goal areas. The task then present was to construct final goal statements representing the global areas and all of the positive and negative statements in each area.

<u>Final goal statements</u>. The final goal statements were prepared by the research staff and are presented here. Positive statements were labeled goals and stated as: Los Angeles City College courses using the new Learning Resources Center and Auto-Tutorial services, will

- \* benefit from the establishment of increased student-teacher interaction through the formation of small student discussion groups, occurring at no additional cost to the instructional program
- \* experience an increase in professional
  quality and humanization of instruction for their individual students
- \* witness a general improvement of instructional quality through improved course content, periodic subject matter review, and heightened creativity in communicating subject matter material to students
- \* have instructors who routinely update approaches and use new teaching techniques in better organized courses
- \* allow students to move through and review course material at their own pace regardless of their individual ability level, knowing if they have completed a section successfully or need to repeat it
- \* realize increased student gain, by having improved learning situations that make education more interesting and stimulating



Page 12.

It was easy enough to call the positive statements goals, but the research staff was hard pressed to label the negative statements in an appropriate manner. A possible identifier for these negative statements might have been apprehensions or anti-goals. However, as the project progressed it seemed best to identify the collapsed negative statement series as concerns. Hence, the final negative-goal statements were thought of as concerns and were expressed as: Los Angeles City College personnel associated with courses using the new Learning Resources Center and Auto-Tutorial services are concerned that:

- \* a growing mistrust between faculty and administration will ensue because of administrative use of the programs potential to effect cost-cutting activities, while the program itself is underfunded
- \* instructors involved with the program will experience diminished morale because their workload is increased and faculty ranks in general are thinned because of the programs success
- \* small discussion groups will not be formed and this will result in increased student alienation through loss of selfidentity in large lecture classes
- \* the learning process will become increasingly impersonalized because of loss of human inter-relationships, thus dehumanizing student life.

### V. SUMMARY AND CONCLUSIONS

Interpretation of final goals. At the outset of this report it was stated that its purpose was to verbalize the expectations and apprehensions that campus people held regarding the LACC LRC. This was attempted using the Delphi technique.



### SUMMARY AND CONCLUSIONS (continued)

As the project progressed it soon became apparent that what would be accomplished here was the listing of very broad or global goals and concerns associated with the LRC. In interpreting these final broad statements one should note their lack of operational construction in measurable terms. This is not a hindrance, but rather an asset as it allows future research activities in this area to center on specific questions.

Use of final goals. The broad global goals and concerns presented here are inadequate for exact measurement of the LRC success or lack of it. Rather, these statements have been constructed as guides to further inquiry. In using these statements in any form of decision making the user should be aware they are part of even a greater overriding principle concerning the LRC, and this must be considered in interpreting, using or judging these statements.

That principle, as understood by the research staff, was that the initial decision to construct an IRC at LACC was to be able to respond to increasing student enrollments in the face of diminishing revenues without lowering the quality education offered. Hence, the goals and concerns offered in this report are in an open interpretive position, relative to this main principle. Any question directed toward the adequacy of the stated goals and concerns must therefore be done in the light of this guiding principle. Should the economic raison d'etre behind the decision to institute an IRC at this campus be found wrong, then it is only reasonable to state that new goals for its use must be developed in respect to the corrected guiding principle.



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A P P E N D I C E S

### LOS ANGELES CITY COLLEGE 855 North Vermont Avenue Los Angeles, California 90029

February 16, 1972

Media Coordinated Instructional Program Members

Dear

We are in the process of defining the goals and objectives associated with the decision to institute the new, larger, and more modern Learning Resources Center here at Los Angeles City College. Our reason for doing this is to seek alternative criteria for measuring the appropriateness and effectiveness of auto-tutorial programs in terms other than student achievement. It is anticipated that this set of broad goals will also aid instructors in their future development of media coordinated instructional programs to maximize the benefits inherent in teaching machines.

There seems at this time to be no list of good or bad events that we can expect from the active incorporation of a IRC into the instructional program. Therefore, we are asking you, the resident experts, to list in as specific terms as possible what you anticipate will be both the positive and negative gains or losses associated with auto-tutorial programs and a Learning Resources Center. While we have asked you to be specific in your responses, we want you to also make them sufficiently broad so as to not be limited to any specific course; but rather reflect some overall effect on students, faculty and/or administrators.

Your own, individual responses are the ones most important to us. Please do not spend more than ten or fifteen minutes in listing the positive and negative aspects you believe associated with the program. Do not confer with your associates and there is no need to sign your name.

Thank you very much for your cooperation.

Sincerely,

Ben K. Gold Office of Research

Albert Landini Research Assistanc

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BKG/AL:e Enclosure



Please return to Research Office, Ad. 109F or to Ben Gold's box in the faculty mailroom by WEDNESDAY, FEBRUARY 23.

I.	• .	Positive	gains	or	aspects	I	associate	with	auto-tutorial	programs.
		1.								
	:	2.								
	3	3.								
	4	<b>.</b>								
	5	i.	-							
u.	N	egative	losses	or	aspects	1	associate	with	auto-tutorial	programs.
ıı.	<u>N</u>		losses	or	aspects	I	associate	with	auto-tutorial	programs.
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u.	1,	•	losses	or	aspects	1		with	auto-tutorial	programs.
ır.	2,	•	losses	or	aspects	1		with	auto-tutorial	programs.

### LOS ANGELES CITY COLLEGE 855 North Vermont Avenue Los Angeles, California 90029

February 28, 1972

Media Oriented Systems Technology (MOST) Program Members

Dear

You'll recall that on February 16, 1972, we sent you a letter and a brief form asking what you expected to be the positive and negative aspects associated with auto-tutorial programs at L.A.C.C. That was Phase I of our efforts to establish and define goals and objectives relating to our new Learning Resources Center.

Phase I has been completed with the return of 15 questionnaires from MOST Program Members. Negative and positive responses from all persons participating have been compiled and listed on the attached form. Duplicate statements have been eliminated and some editing has been performed to put all statements into a similar style format.

In Phase II we are asking that you read each one of these positive statements as a potential goal or objective for our Learning Resources Center (IRC), and assign it a value ranging from zero to one hundred. Higher numbers indicate those statements reflecting the best goals for our IRC, and low scores identify the most inappropriate ones. You may use any number as much as you want. An absurd example would be to label all the statements as having a value of ten.

The list has both positive and negative statements. It is easy enough to call the positive statements goals. But what do we call negatives ones? There is hesitation to call them fears, and perhaps we should more appropriately call them apprehensions. In any case we all seem to have them to some extent regarding the IRC and this is an attempt to identify the ones most important to all of us.

Again we ask you to read the list of negative statements, and rate them from zero to one hundred as being the ones most likely to be associated with our LRC. Here also, the higher the number you assign will indicate the greater the strength of the apprehension. As with the positive statements you can use any number twice in your ratings.



MOST Program-Members February 28, 1972 Page 2.

Thank you again for your cooperation, as before there is no need to identify yourself and you may also return these rating sheets in the return envelopes provided directly to Research Office, Ad. 109F or to Ben Gold's mailbox. If you have any question about the procedure please contact either one of us on extension 281. This should be an individual effort involving only a minimum of time.

Sincerely,

Ben K. Gold Office of Research

Albert Landini Research Assistant

BKG/AL: e Enclosure

# INITIAL SET OF GOALS AND OBJECTIVES (Duplicates Removed)

1	SCOKE-		ļ																																
aspects associated with auto-tutorial programs	epet	2. Improved learning through flexible scheduling	3. Better organized courses.	4. Allow students to make in more toots or come and	5. Increase in individualized professional and terminal a	6. Makes process evaluation possible	7. Improved demonstration of concepts, principles and relationable.	8. Students absorb lecture material at their own specie	9. More efficient use of student time.	10. Better public relations image.	II. Pictures will benefit the poor reader.	L. Encouraging self discipline in students.	13. Improved learning through enriched motivation	14. Multi-media provides for flexible instruction	15. Provide mass individualized instruction	16. Students learn more.	7. Additional student aid for achieving learning maskers.	18. Upgrade instructor effectiveness	9. Eliminate time devouring activities	0. Better student and instructor communication	1. Minimum inter-lecture variability	2. Students attention half k., 1 m. 1 m.	3. Provides more executive and to a struction in carrel	d Thomses and Leative means to achieve instructional goals.	The thereased use of previously uneconomical materials	forther opportunity for new teaching techniques.	7 because textollity for administrators in scheduling classes	A Partie access to a particular course portion.	o avaidation project as possible dissertation tonio	Y. Student learning span shortened	U. Upgrade LACC student image.	1. Improvement of instruction.	Z. Increased student gain	3. Gives student instant feedback as to learning suggests	



# Positive gains (continued)

SCORE 0-100

### LOS ANGELES CITY COLLEGE 855 North Vermont Avenue Los Angeles, California 90029

March 24, 1972

Media Oriented Systems Technology (MOST) Program Members

Dear

This is Phase III of our mutual efforts to build a set of goals to be associated with the proposed Auto-Tutorial (A-T) programs in LACC's new Learning Resources Center (LRC). We want to say how pleased we are with the excellent cooperation received from all MOST members in aiding us in this project.

In Phase I of our Goals program MOST participants were asked to prepare short lists of statements about what they felt were positive and negative gains or losses they associated with the proposed A-T prgrams and the new LRC. This was an attempt to gather together some general feelings that MOST participants had about the LRC and A-T programs, that would later become the basis for some more concrete Goal statements.

Phase II was the first step in trying to assign the varying degrees of importance those many different statements had in terms of being Goals for our LRC and A-T programs. In that step you indicated how appropriate you felt each statement was as a Goal for our LRC by assigning it a score, ranging from zero or no-importance. Those scores were used by us to get some measure of the total group opinion as to the importance of each of these statements. The median value of all values assigned to a specific statement was deemed the best indicator of that statement's importance.

Now, Phase III is the next to the last step in our Goal formulation project. We are presenting you with a somewhat shortened list of the same statements sent to you in Phase II. Those excluded this time are ones that had a median score indicating they were of relatively little importance to the MOST group.

MOST Program Members March 24, 1972 Page 2.

This Phase III list (attached to this letter) is different from the Phase II list, not only because it has been shortened, but also because it shows the median score for each statement that was determined from the results of Phase II, and ranks the statements in order of those median scores. With this information, you now have some idea of how the other MOST members feel about what is important or not important in terms of Goals for the LRA and A-T activities.

Thus, with this new information we are again asking you to rate from 0-100 the importance of each of these statements as an appropriate Goal or Fear to be associated with the LACC LRC and its proposed A-T activities. It is best to assign a number to each statement, even a very low one, rather than leave the space blank. However, you may leave the space blank if you believe that is the best response to be made.

With this information, the Research Office will try to combine the most important statements into complete sentences describing the Goals and Fears to be associated with our LRC. These will be submitted to you in Phase IV for your review and comment.

Thank you for your continuing help in this project. Please return the attached lists by Monday, April 10 (sooner if possible!)

Sincerely,

Ben K. Gold Office of Research

Albert Landini Research Assista

BKG: AJL:e Enclosures



נ	. Goals for proposed LACC Audio-Tutorial Programs		
R.	ink	First Round	Second Round
4,6		<u>Median</u>	Score 0100
	The traction of the small Statement Statement Statement		
	tion at no additional expense	93	
		90	
	more ruceregering and seimilaring	90	***
	- Gives student instant feedback as to learning		***************************************
	Success	88	
	It increased and to hardworking, slow learning	æ	
	students	85	
:	o increase in individualized, professional and	••	
	numanized instruction	83	
,	/ Provide opportunity for new teaching techniques	80	
,	/ Repeated access to a particular course portion	80	
•	/ More student and instructor interaction	80 80	
	Students advance at individual pace		
	Improved course content and subject matter review	80	
	by instructors	00	
7	Updating instructors approach to teaching	80	***
7	Students absorb lecture material at their own	80	
•	speed		
15	speed	80	<u></u>
15	- To the second state of the second s	<b>7</b> 5	
17	material	<b>7</b> 5	
17	credit	70	
	accention netd by I to I situation in		
1.7	Carrel	70	
	more creative means to achieve instruction	a1	
17	goals	70	
17	increased contribution to student learning.	70	<del></del>
-,		<b>:-</b>	<del></del>
22	action	<b>7</b> 0	
23	note efficient use of student time	69	<del>1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.</del>
23	multi-media provides for flexible instruction	68	******
25 25	improvement of instruction	68	
23	will result in a set of validated, instructionally		<del></del>
0.0	potent, creative instructional sequences	67	
26	Avoluance of repetitive lecture sessions by in-	••	
	structors	65	
26	110vide mass individualized instruction	65	<del>2 2 2 3 3 4</del>
28	increased student gain	62	
28	Fresentation of subject matter in format many factor	~	to the second se
	TIAT TO MOST Students	62	
29	rmproved reguling Enrough flexible coheduling	60	·
29	better organized courses	60	
29	improved demonstration of concepts, principles and	-	
	relationships	60	
29	rictures will benefit the poor reader	60	<del>- +</del>
29	improved learning Enrough enriched matiration	60	
29	Additional student ald for achieving learning mag-	00	
	LCLY	60	
29	Better student and instructor communication	60	<del> </del>
		- <del>-</del>	



	GOALS (continued)		
D.		First Round	Page 2. Second Round
Ra	<del></del>	Median	Score 0100
2	9 Increased specificity by instructors as to what is		acore 0. TOO
_	omposed of Stateller's	60	
2	TOT STIMENTS in cohod. 11	60	<del></del>
	rueir courses.	60	
29	'	60 60	
29	Todache mocivation increased	60 60	-
4(	, pradents rearn more	55 55	
40	. Occ or comparet as a disculative tool	55 55	
42	·	50	
42	. Porque institution ellectivances	50 50	
42		50 50	-
42	increased use of previously unecommissi managed and	50 50	
42			
42	day to simplify material into dramatic thomas	50	
42	The second second and the second seco	50 50	
42	rights tot greater postrive feelings should be the	50	
	eron dinong students	50	
42	more mercital in a diven vonser	50 50	
42	Makes outcome evaluation possible	50	
42		50	<del>=======</del>
42	Will assist in teaching manual techniques		
II.	Form Asset 1 1 200	50	
***	Fears Associated With Proposed LACC A-T Programs		
1			
ī	Inadequate funds allocated for program maintenance.	<b>.</b> 85	
1	udubçi wille incressing etudome in-i	. 85	
4	TOWELES TACRIES MOTS IN		
4		A 6	
4		. 80	
•	or orocrost Detween raculty and administration		<del></del>
7	* SALVIUS LUC DIOTARY	80	
•		v	
7	terrare crasses	<sup>-</sup> 78	
•			<del></del>
9	LOLINGUA	78	
10		72	
10		70	
TO	reacher resistance to articulating their course		
10	Concentia	70	
10		70 70	F
	acurative mishise.	68	<del></del>
14	Dehumanization of student life	65	-

(continued on next page)



### FEARS (continued)

Page 3.

Rank	First Round Median	Second Round Score 0100
15 Impersonalization of subject matter	-	
tion on class size and work load	60	
no more instructionally sound or creative than existing ones	60	
17 Administrative and technical barriers in the Lea	60	
ing Resources Center		
1/ Drain or money away from hiring new teachers	60	<del></del>
1/ Lack of student-teacher interaction	60	
1/ Restistence to A-T by hysterical (instructors) wi result in the development of vapid instructional	.11	##
programs  17 An attitudinal division of faculty over use of A	_tr	Afficial de la company
instruction	60	<del></del>
staff about effects of "automation" on their em-	<b>a1</b>	
ployment	52	
	50	***************************************
28 Force instructors to do "media thing" no matter	how	
effective they are otherwise	50	
	50	

\* \* \* \* \* \* \* \* \* \* \* \*